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飞机座舱温度控制系统动态特性研究

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STUDY ON DYNAMIC CHARACTERISTICS OF COCKPIT TEMPERATURE CONTROL SYSTEM

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摘要

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摘要 座舱温度状态是影响飞行员工作效率的经常性和主要因素之一。我国目前研制和使用的大多数飞机,座舱温度动态性能差。本文在理论分析和试验的基础上建立了座舱温控系统的数学模型;借助电子计算机并运用自动控制理论计算和模拟了温控系统的动静态特性;系统地分析了各参数对系统动态性能的影响,并给出一组较好的参数组合;探讨了系统的改进方案并给出计算和分析结果。

关键词:

Abstract: Cockpit temperature condition, is one of common and important factors which have influence on pilot's efficiency. A mathematical model of the cockpit temperature control system (CTCS) has been established on the basis of theoretical analysis and experimental data. According to the theory of automatic control the dynamic and static characteristics of CTCS have been calculated and simulated by means of an electronic computer. The effects of each parameter on the dynamic characteristics of CTCS have been studied systematically, and a quite good combination of parameters is provided. Finally, improvement of CTCS has been investigated and the results of calculation and analysis are presented.

Keywords:

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